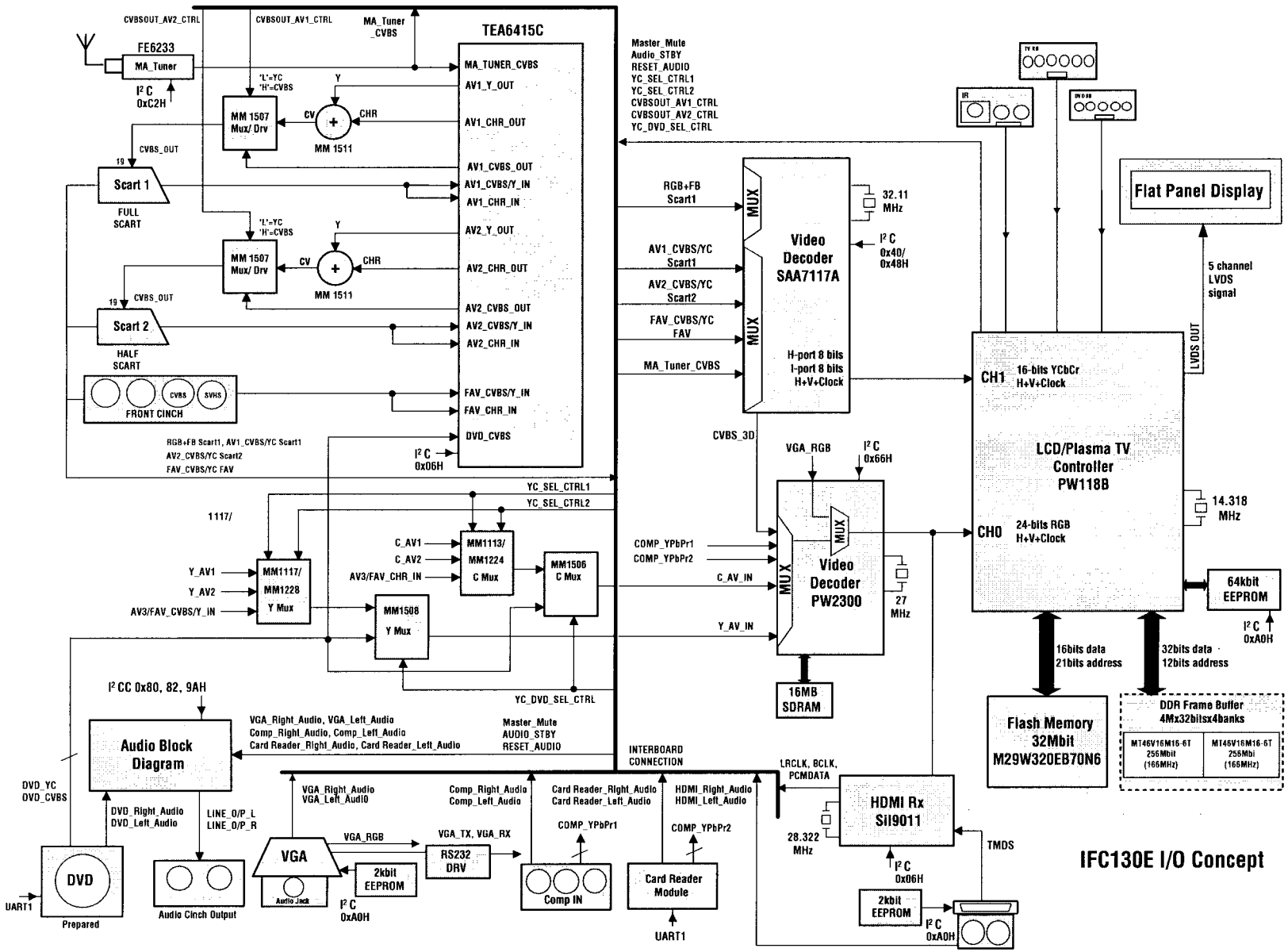
Service - Information
IFC130E 27” 32”

INFORMAZIONE DI SERVIZIO
STEREO / NICAM **LL'BG, DKK', I PAL, SECAM, NTSC (AV)**



IFC130E I/O Concept

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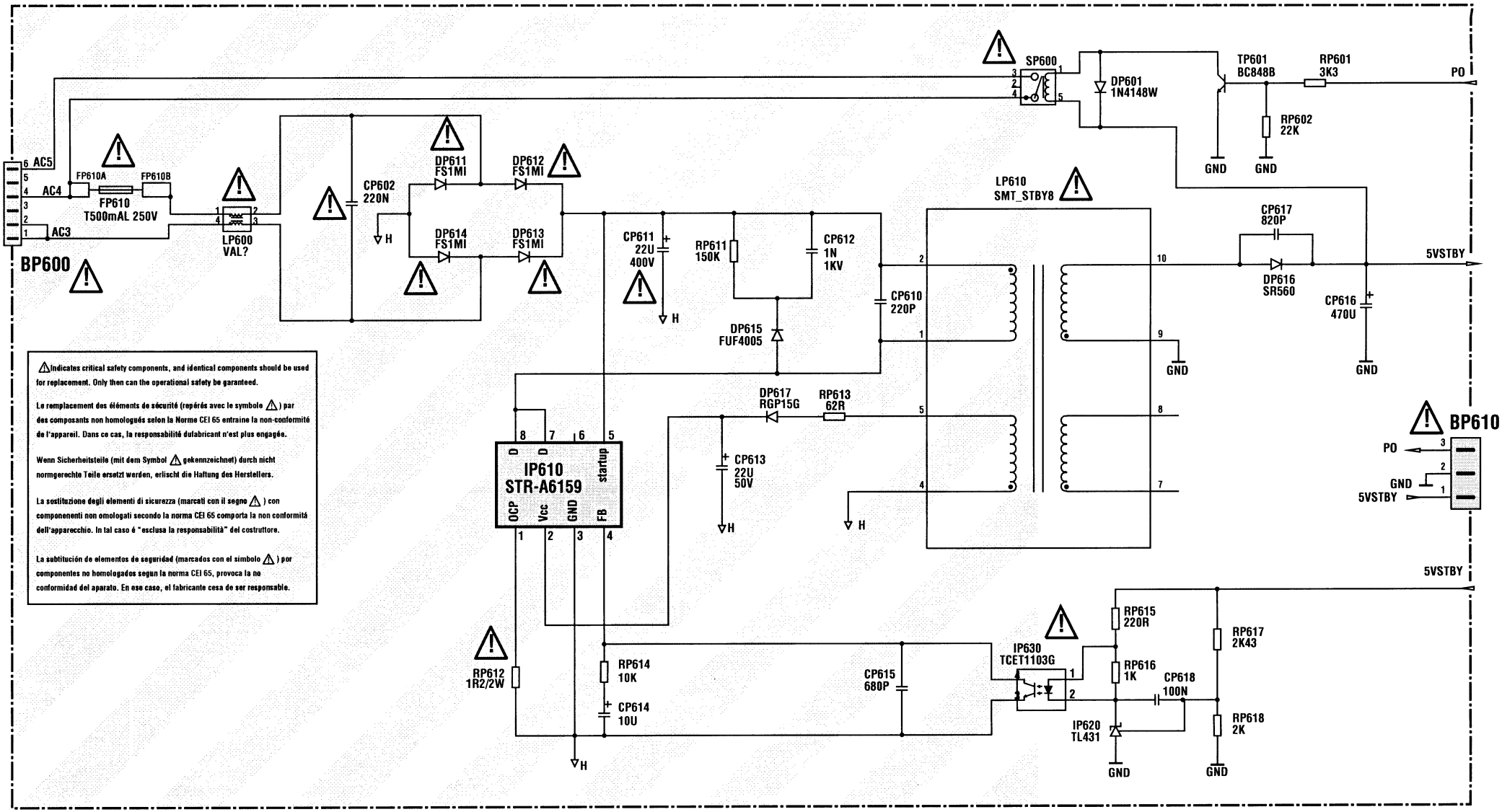
IFC130 27" 32"



⚠ Indicates critical safety components, and identical components should be used for replacement. Only then can the operational safety be garanteed.

Le remplacement des éléments de sécurité (repérés avec le symbole ⚠) par des composants non homologués selon la Norme CEI 65 entraine la non-conformité de l'appareil. Dans ce cas, la responsabilité dufabricant n'est plus engagée.

Wenn Sicherheitsteile (mit dem Symbol ⚠ gekennzeichnet) durch nicht normgerechte Teile ersetzt werden, erlischt die Haftung des Herstellers.

La sostituzione degli elementi di sicurezza (marcati con il segno ⚠) con componenenti non omologati secondo la norma CEI 65 comporta la non conformitá dell'apparecchio. In tal caso é "esclusa la responsabilità" del costruttore.

La subtitución de elementos de seguridad (marcados con el simbolo ⚠) por componentes no homologados segun la norma CEI 65, provoca la no conformidad del aparato. En ese caso, el fabricante cesa de ser responsable.

Note :
Power Supply primary circuit measurements.
- Use only (⏚) connection point.

Attention :
Mesure dans la partie primaire de l'alimentation
- Utiliser la masse du bloc alimentation (⏚).

Achtung :
Bei Messungen im Primärnetzteil
- Primärnetzteilmasse verwenden (⏚).

Attenzione :
misure nell'alimentatore primario
- usare massa alimentazione primario (⏚).

Cuidado :
Medida en el bloque de alimentacion
- Utilizar la masa del bloque de alimentacion (⏚).

Part of board connected to mains supply.
Partie du châssis reliée au secteur.
Primärseite des Netzteils.
Parte dello telaio collegata alla rete.
Parte del chasis conectada a la red.

⚠ **Use isolating mains transformer**
Utiliser un transformateur isolateur du secteur
Einen Trenntrafo verwenden
Utilizzare un transformatore per isolarvi dalla rete
Utilizar un transformador aislador de red

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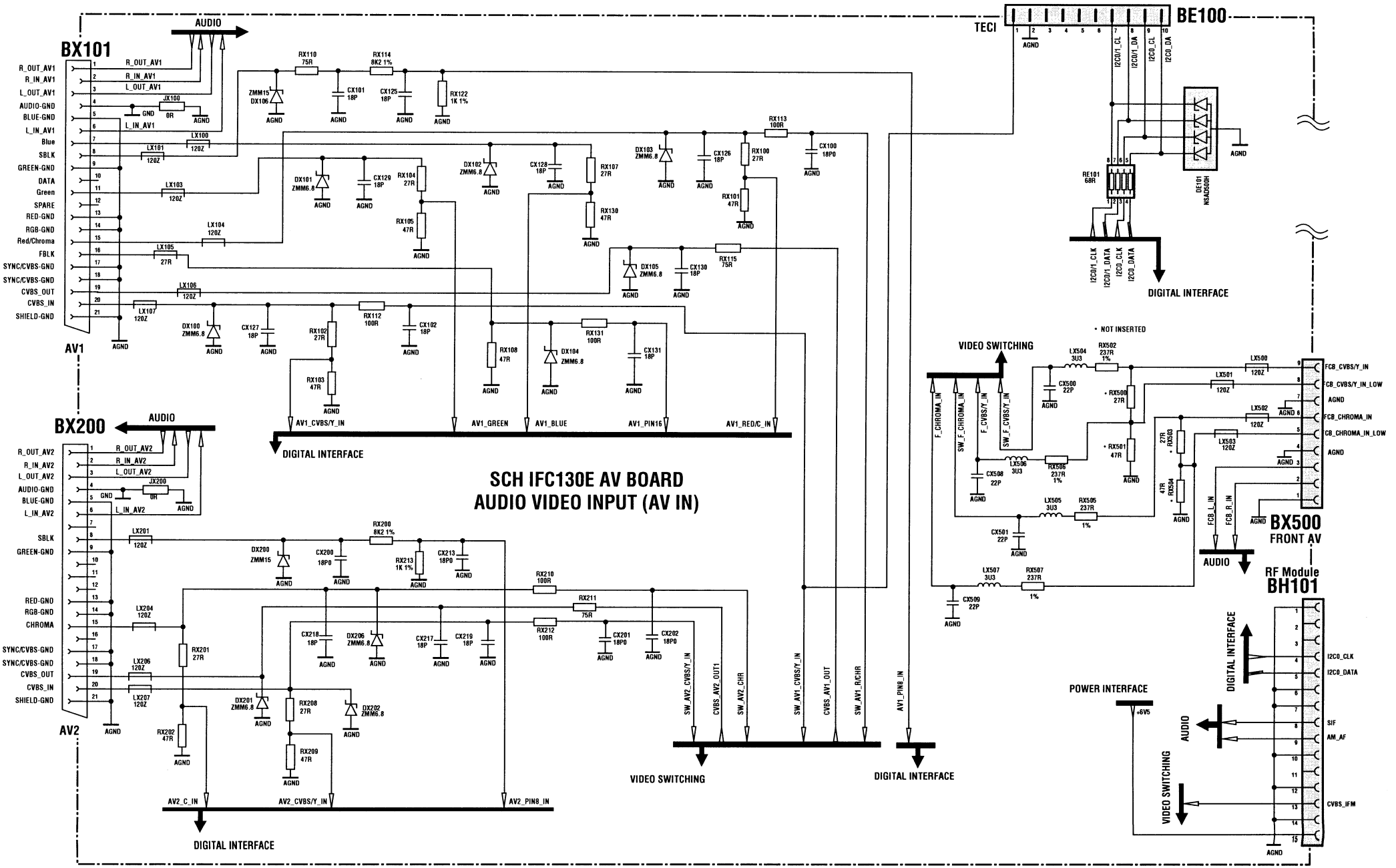
SCH IFC130E AV BOARD
AUDIO VIDEO INPUT (AV IN)
BX101
AV1
AUDIO
DIGITAL INTERFACE
BX200
AV2
AUDIO
DIGITAL INTERFACE
VIDEO SWITCHING
DIGITAL INTERFACE
BE100
TECI
DIGITAL INTERFACE
* NOT INSERTED
VIDEO SWITCHING
BX500
FRONT AV
AUDIO
RF Module
BH101
DIGITAL INTERFACE
POWER INTERFACE
AUDIO
VIDEO SWITCHING

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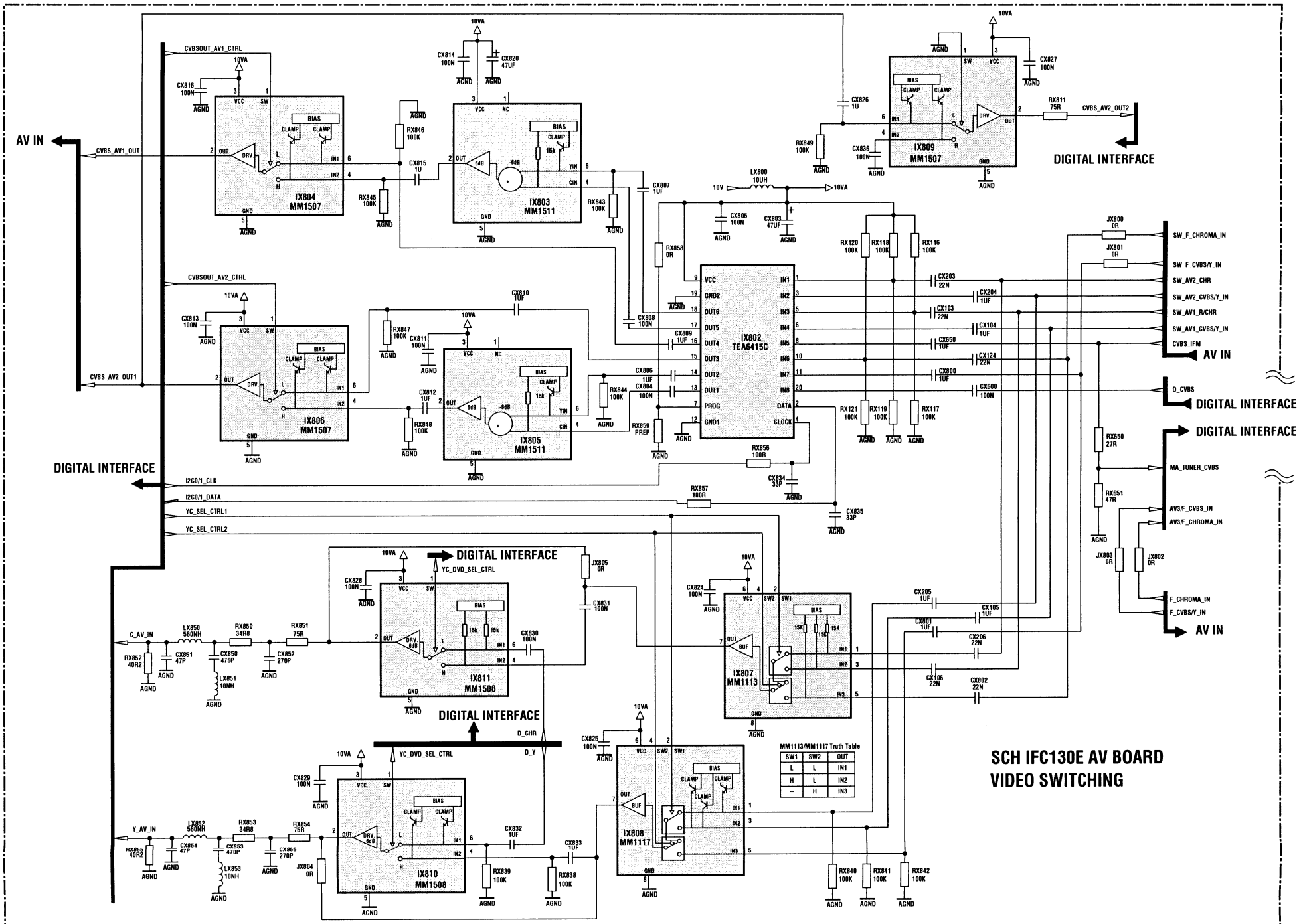
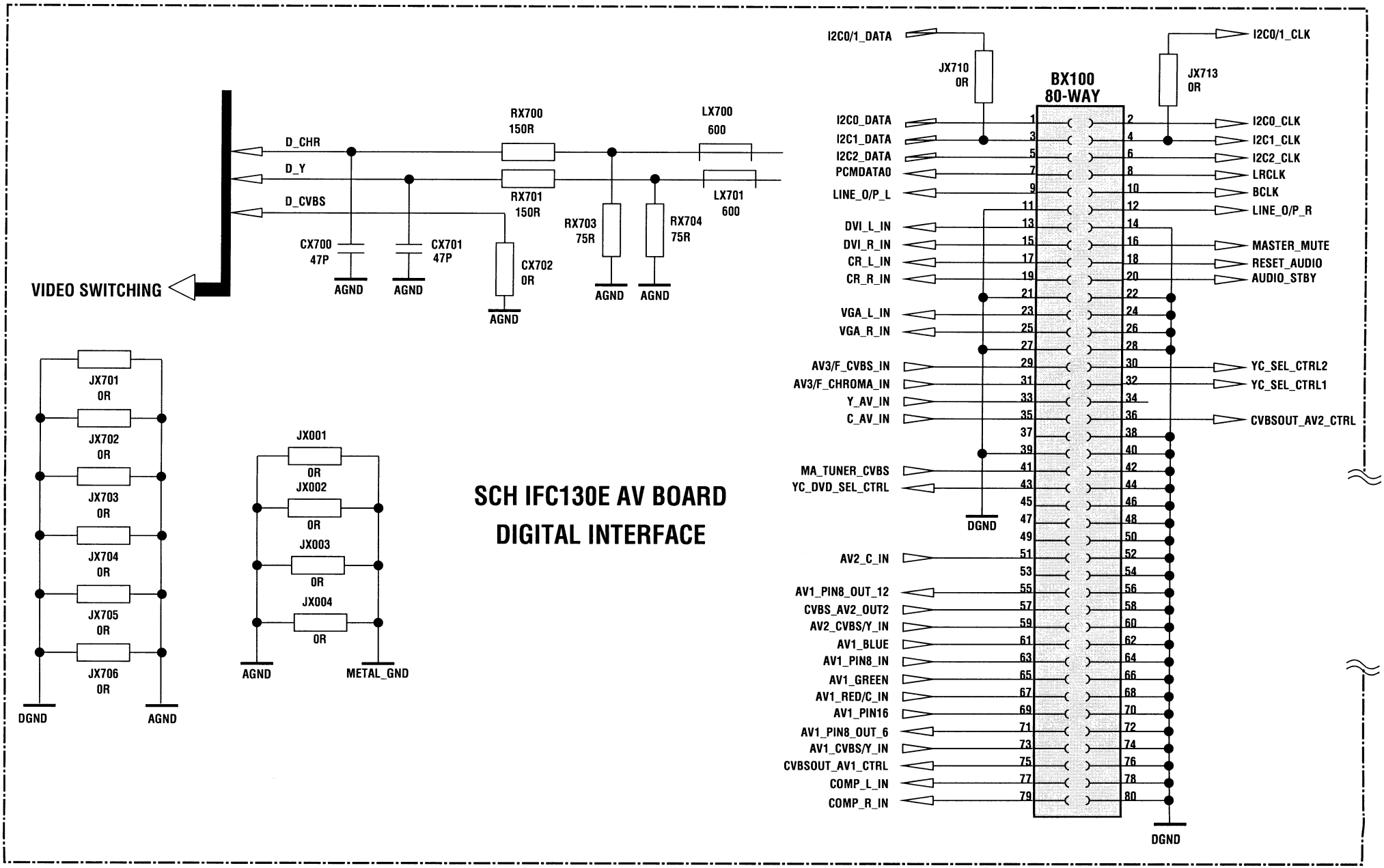

AV IN
CVBS_AV1_OUT
CVBSOUT_AV1_CTRL
IX804 MM1507
IX803 MM1511
CVBS_AV2_OUT2
IX809 MM1507
DIGITAL INTERFACE
CVBSOUT_AV2_CTRL
CVBS_AV2_OUT1
IX806 MM1507
IX805 MM1511
IX802 TEA6415C
SW_F_CHROMA_IN
SW_F_CVBS/Y_IN
SW_AV2_CHR
SW_AV2_CVBS/Y_IN
SW_AV1_R/CHR
SW_AV1_CVBS/Y_IN
CVBS_IFM
D_CVBS
MA_TUNER_CVBS
AV3/F_CVBS_IN
AV3/F_CHROMA_IN
F_CHROMA_IN
F_CVBS/Y_IN
I2C0/1_CLK
I2C0/1_DATA
YC_SEL_CTRL1
YC_SEL_CTRL2
YC_DVD_SEL_CTRL
D_CHR
D_Y
C_AV_IN
Y_AV_IN
IX811 MM1506
IX810 MM1508
IX807 MM1113
IX808 MM1117
MM1113/MM1117 Truth Table
SW1 SW2 OUT
L L IN1
H L IN2
-- H IN3
SCH IFC130E AV BOARD
VIDEO SWITCHING


VIDEO SWITCHING
D_CHR
D_Y
D_CVBS
RX700
150R
RX701
150R
LX700
600
LX701
600
RX703
75R
RX704
75R
CX700
47P
CX701
47P
CX702
0R
AGND
JX701
0R
JX702
0R
JX703
0R
JX704
0R
JX705
0R
JX706
0R
DGND
JX001
0R
JX002
0R
JX003
0R
JX004
0R
METAL_GND
SCH IFC130E AV BOARD
DIGITAL INTERFACE
I2C0/1_DATA
JX710
0R
JX713
0R
I2C0/1_CLK
BX100
80-WAY
I2C0_DATA
I2C1_DATA
I2C2_DATA
PCMDATA0
LINE_O/P_L
DVI_L_IN
DVI_R_IN
CR_L_IN
CR_R_IN
VGA_L_IN
VGA_R_IN
AV3/F_CVBS_IN
AV3/F_CHROMA_IN
Y_AV_IN
C_AV_IN
MA_TUNER_CVBS
YC_DVD_SEL_CTRL
AV2_C_IN
AV1_PIN8_OUT_12
CVBS_AV2_OUT2
AV2_CVBS/Y_IN
AV1_BLUE
AV1_PIN8_IN
AV1_GREEN
AV1_RED/C_IN
AV1_PIN16
AV1_PIN8_OUT_6
AV1_CVBS/Y_IN
CVBSOUT_AV1_CTRL
COMP_L_IN
COMP_R_IN
I2C0_CLK
I2C1_CLK
I2C2_CLK
LRCLK
BCLK
LINE_O/P_R
MASTER_MUTE
RESET_AUDIO
AUDIO_STBY
YC_SEL_CTRL2
YC_SEL_CTRL1
CVBSOUT_AV2_CTRL
DGND

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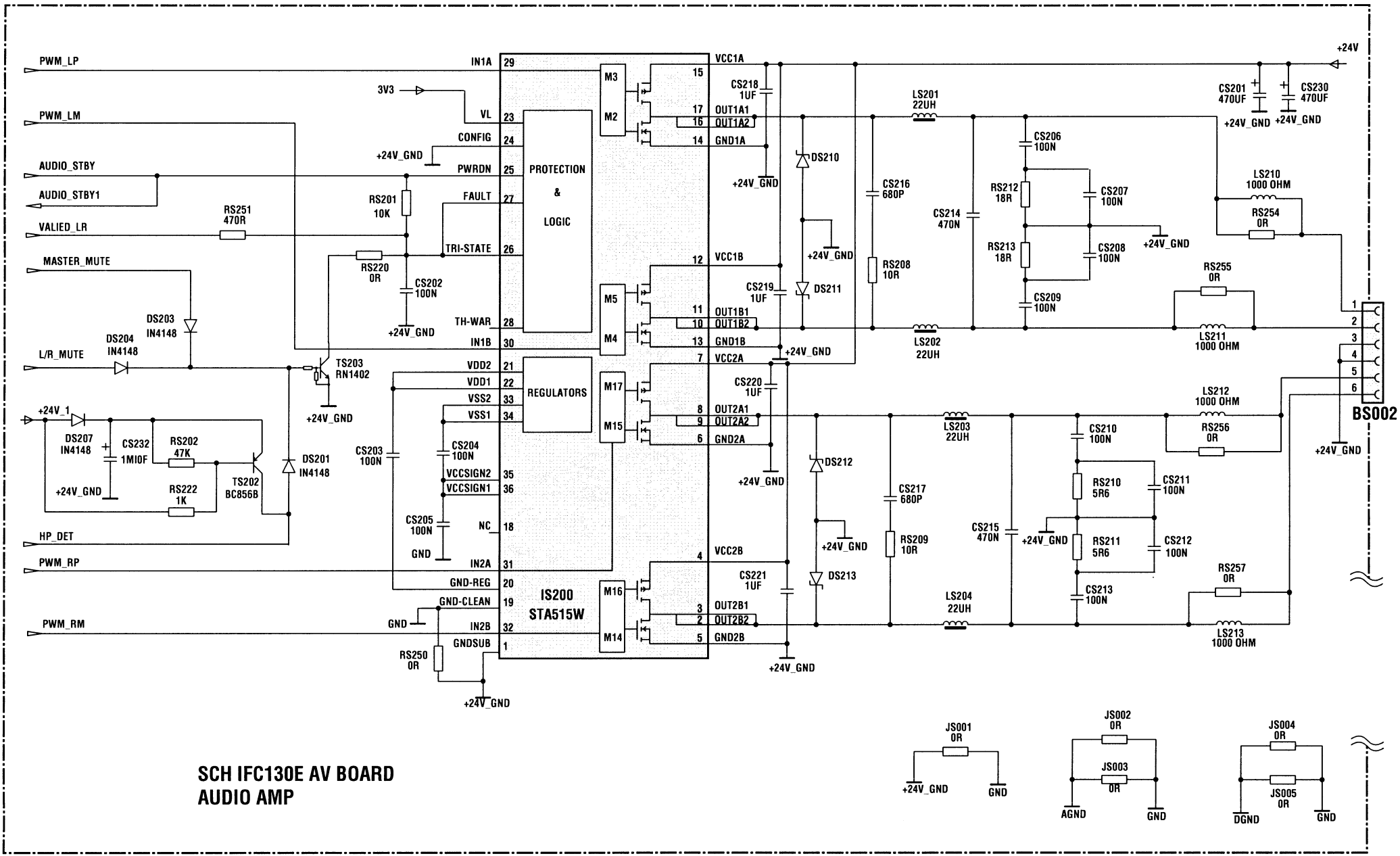
PWM_LP
PWM_LM
AUDIO_STBY
AUDIO_STBY1
VALIED_LR
MASTER_MUTE
L/R_MUTE
HP_DET
PWM_RP
PWM_RM
3V3
+24V_GND
RS251 470R
RS201 10K
RS220 0R
CS202 100N
DS203 IN4148
DS204 IN4148
TS203 RN1402
+24V_1
DS207 IN4148
CS232 1M10F
RS202 47K
RS222 1K
TS202 BC856B
DS201 IN4148
CS203 100N
CS204 100N
CS205 100N
RS250 0R
IN1A
VL
CONFIG
PWRDN
FAULT
TRI-STATE
TH-WAR
IN1B
VDD2
VDD1
VSS2
VSS1
VCCSIGN2
VCCSIGN1
NC
GND
IN2A
GND-REG
GND-CLEAN
IN2B
GNDSUB
PROTECTION & LOGIC
REGULATORS
IS200 STA515W
M3
M2
M5
M4
M17
M15
M16
M14
VCC1A
OUT1A1
OUT1A2
GND1A
VCC1B
OUT1B1
OUT1B2
GND1B
VCC2A
OUT2A1
OUT2A2
GND2A
VCC2B
OUT2B1
OUT2B2
GND2B
CS218 1UF
CS219 1UF
CS220 1UF
CS221 1UF
DS210
DS211
DS212
DS213
CS216 680P
CS217 680P
RS208 10R
RS209 10R
LS201 22UH
LS202 22UH
LS203 22UH
LS204 22UH
CS214 470N
CS215 470N
CS206 100N
CS207 100N
CS208 100N
CS209 100N
RS212 18R
RS213 18R
CS210 100N
CS211 100N
CS212 100N
CS213 100N
RS210 5R6
RS211 5R6
LS210 1000 OHM
LS211 1000 OHM
LS212 1000 OHM
LS213 1000 OHM
RS254 0R
RS255 0R
RS256 0R
RS257 0R
+24V
CS201 470UF
CS230 470UF
BS002
JS001 0R
JS002 0R
JS003 0R
JS004 0R
JS005 0R
AGND
DGND
SCH IFC130E AV BOARD
AUDIO AMP

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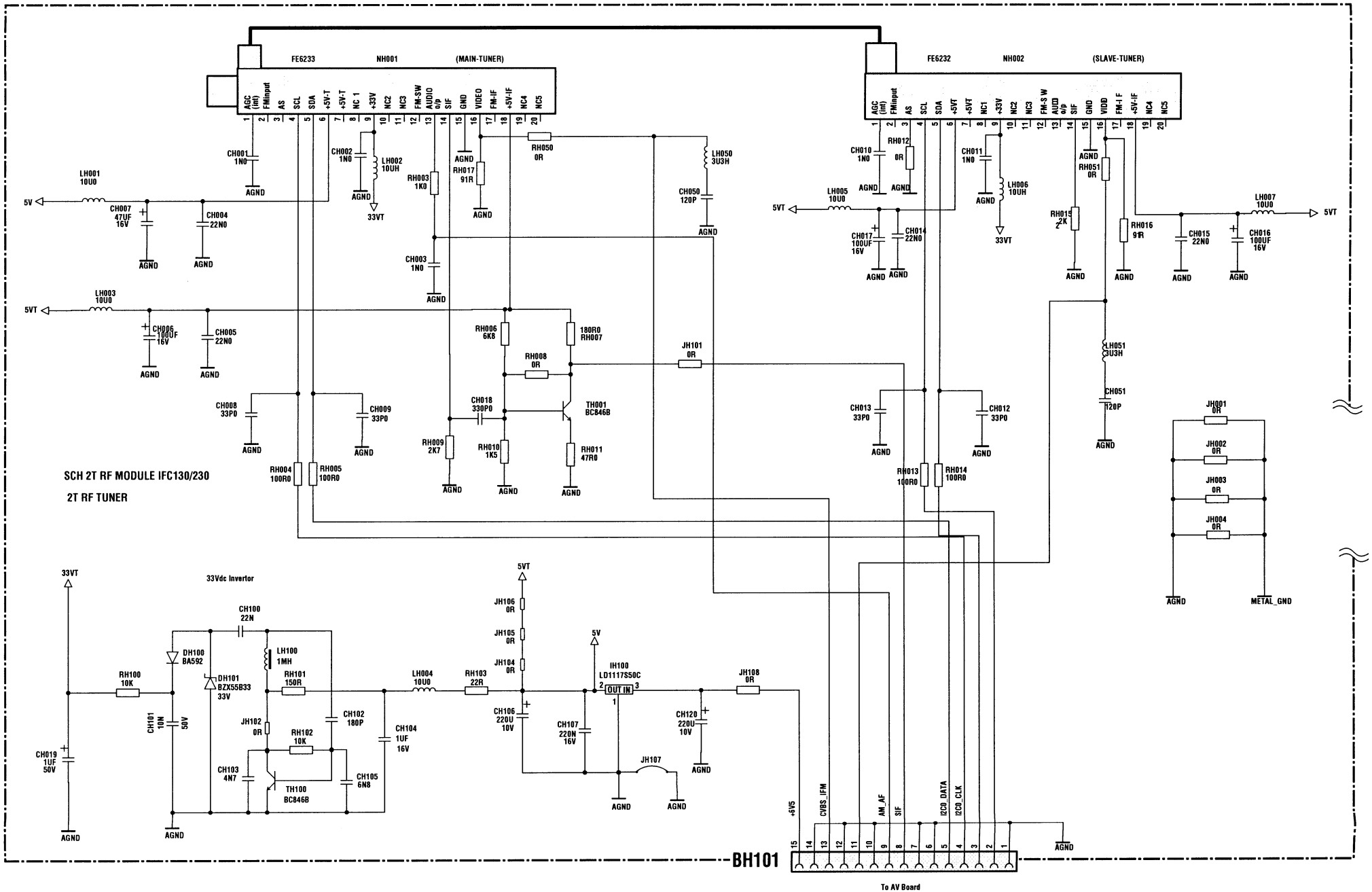
FE6233
NH001
(MAIN-TUNER)
FE6232
NH002
(SLAVE-TUNER)
SCH 2T RF MODULE IFC130/230
2T RF TUNER
33Vdc Inverter
BH101
To AV Board
METAL_GND

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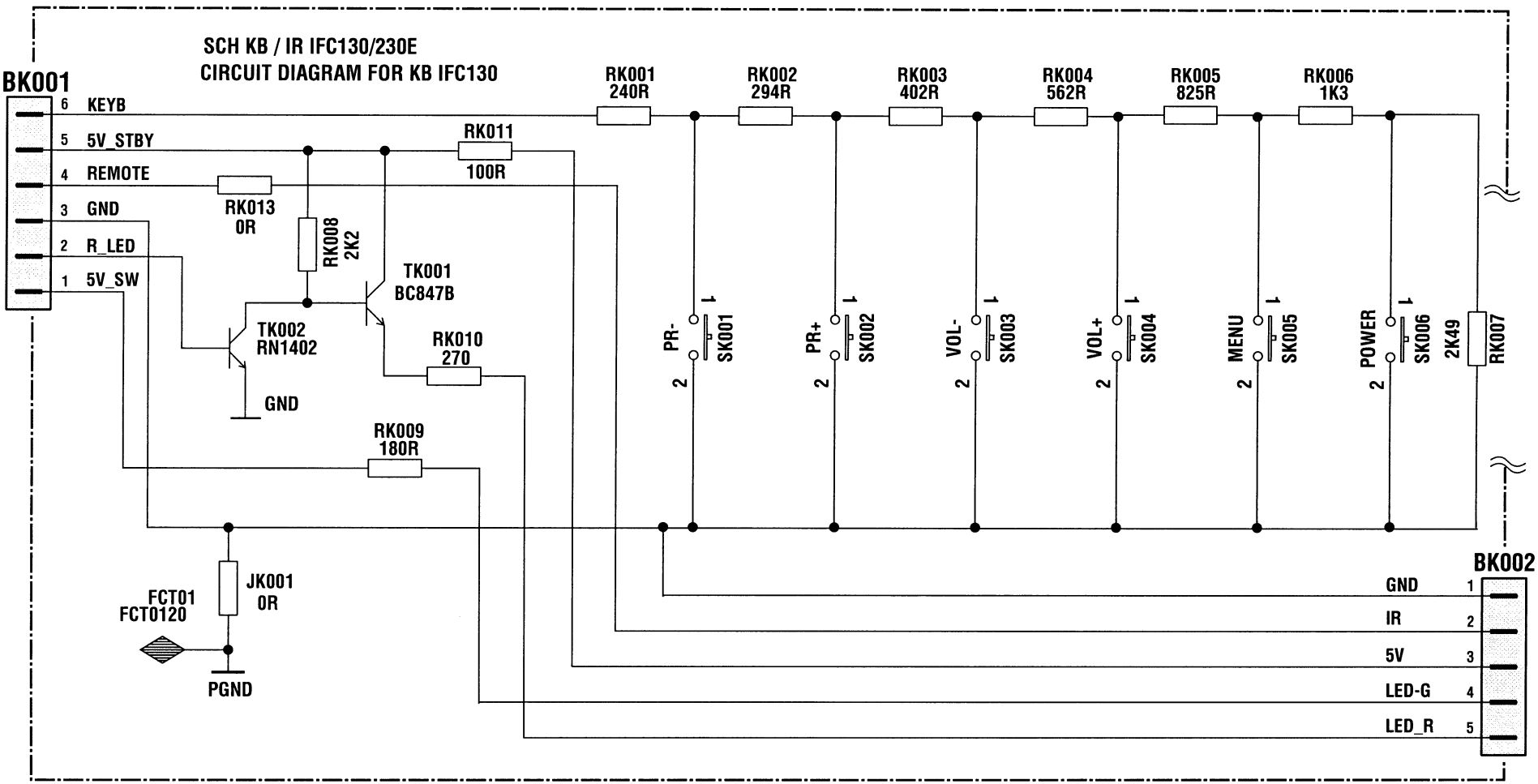
SCH KB / IR IFC130/230E
CIRCUIT DIAGRAM FOR KB IFC130
BK001
6 KEYB
5 5V_STBY
4 REMOTE
3 GND
2 R_LED
1 5V_SW
RK001 240R
RK002 294R
RK003 402R
RK004 562R
RK005 825R
RK006 1K3
RK011 100R
RK013 0R
RK008 2K2
TK001 BC847B
TK002 RN1402
RK010 270
GND
RK009 180R
PR- SK001
PR+ SK002
VOL- SK003
VOL+ SK004
MENU SK005
POWER SK006
2K49 RK007
JK001 0R
FCT01 FCT0120
PGND
BK002
GND 1
IR 2
5V 3
LED-G 4
LED_R 5

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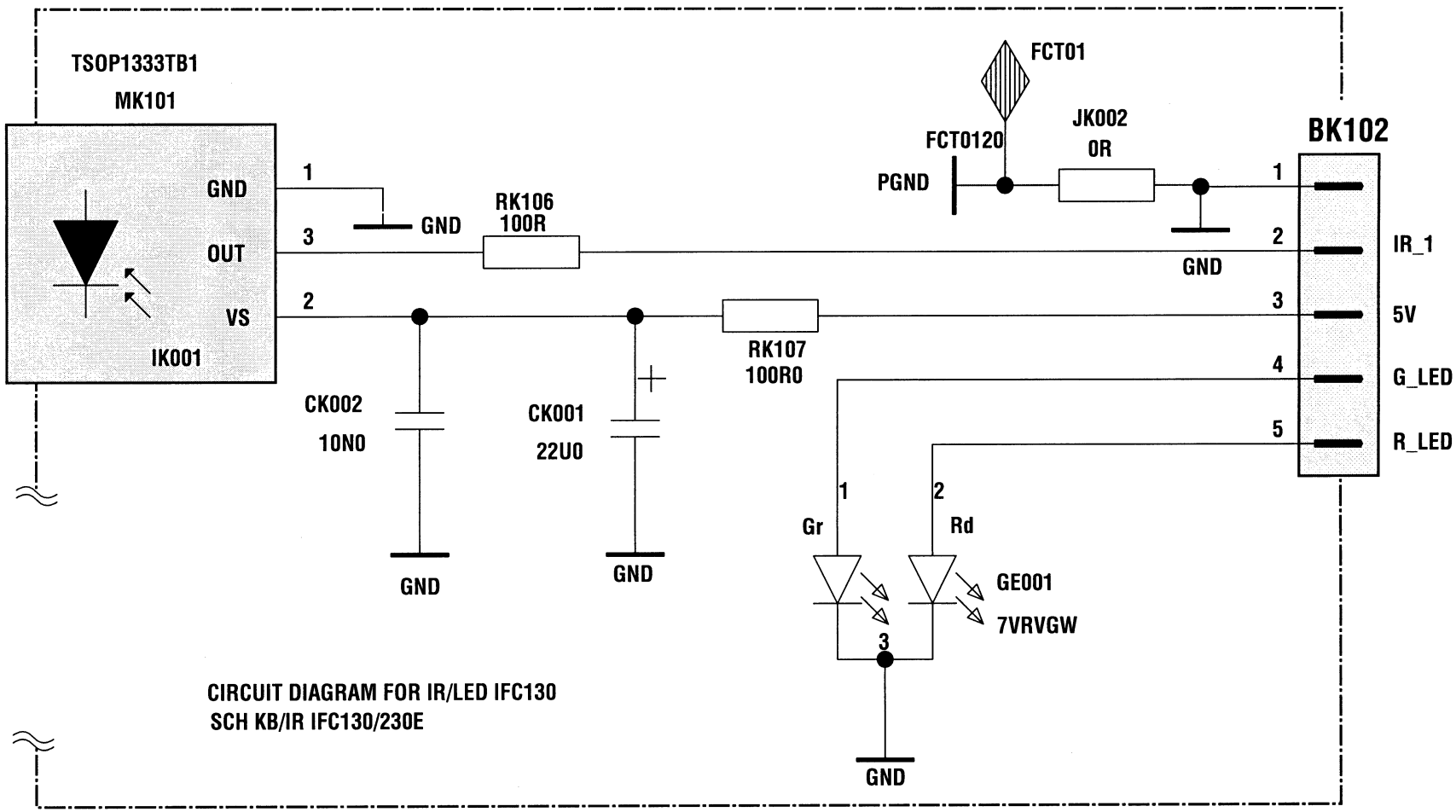
TSOP1333TB1
MK101
GND
OUT
VS
IK001
1
3
2
GND
RK106
100R
CK002
10N0
GND
CK001
22U0
GND
RK107
100R0
FCT01
FCT0120
PGND
JK002
0R
GND
BK102
1
2
3
4
5
IR_1
5V
G_LED
R_LED
1
2
Gr
Rd
GE001
7VRVGW
3
GND
CIRCUIT DIAGRAM FOR IR/LED IFC130
SCH KB/IR IFC130/230E

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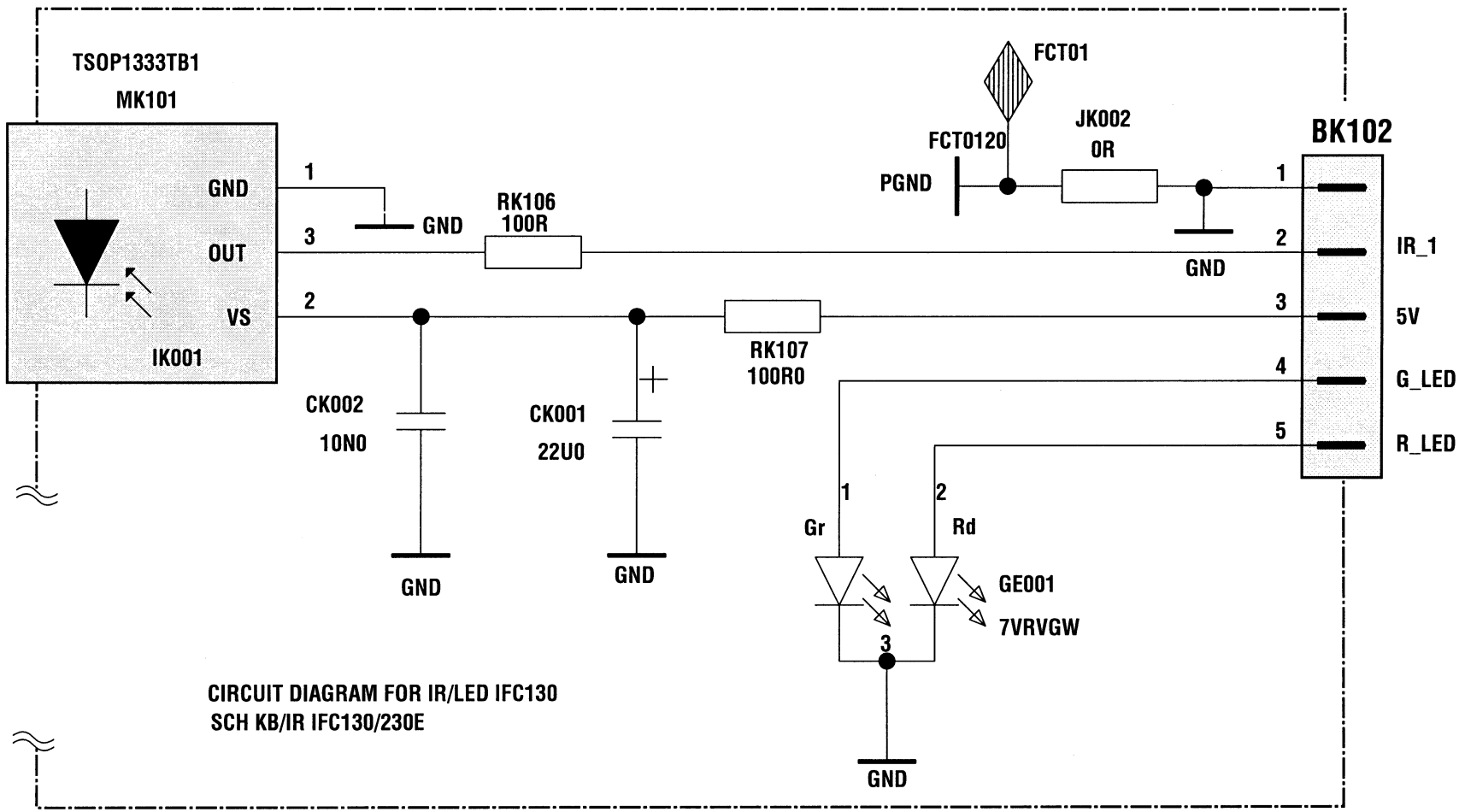
TSOP1333TB1
MK101
GND
OUT
VS
IK001
1
3
2
GND
RK106
100R
CK002
10N0
GND
CK001
22U0
GND
RK107
100R0
FCT01
FCT0120
PGND
JK002
0R
GND
BK102
1
2
3
4
5
IR_1
5V
G_LED
R_LED
1
2
Gr
Rd
GE001
7VRVGW
3
GND
CIRCUIT DIAGRAM FOR IR/LED IFC130
SCH KB/IR IFC130/230E

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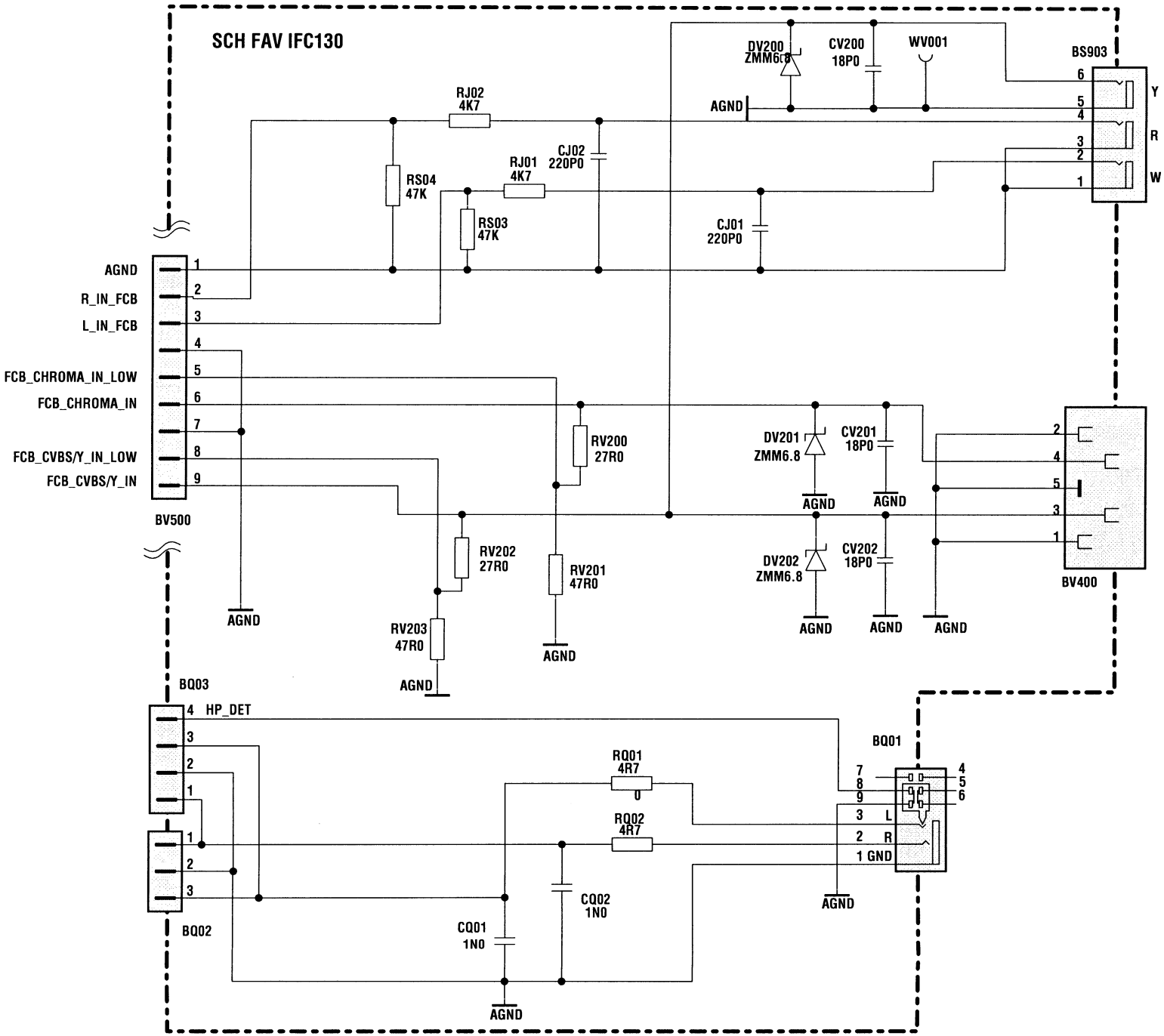
SCH FAV IFC130
DV200 ZMM6.8
CV200 18P0
WV001
BS903
AGND
RJ02 4K7
RJ01 4K7
CJ02 220P0
RS04 47K
RS03 47K
CJ01 220P0
Y
R
W
AGND
R_IN_FCB
L_IN_FCB
FCB_CHROMA_IN_LOW
FCB_CHROMA_IN
FCB_CVBS/Y_IN_LOW
FCB_CVBS/Y_IN
BV500
RV200 27R0
DV201 ZMM6.8
CV201 18P0
RV202 27R0
RV201 47R0
DV202 ZMM6.8
CV202 18P0
BV400
RV203 47R0
BQ03
HP_DET
BQ01
RQ01 4R7
RQ02 4R7
L
R
GND
BQ02
CQ01 1N0
CQ02 1N0

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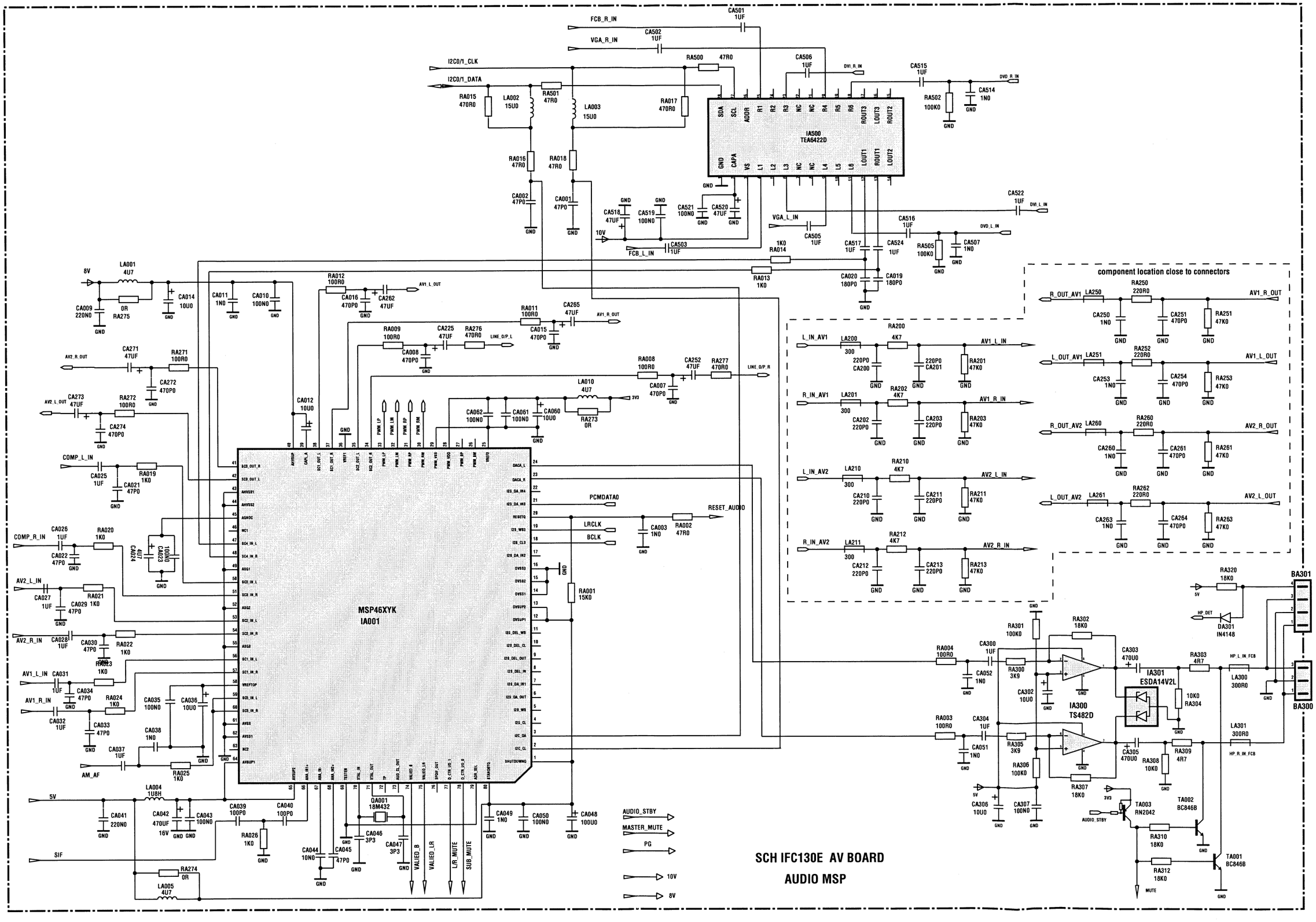

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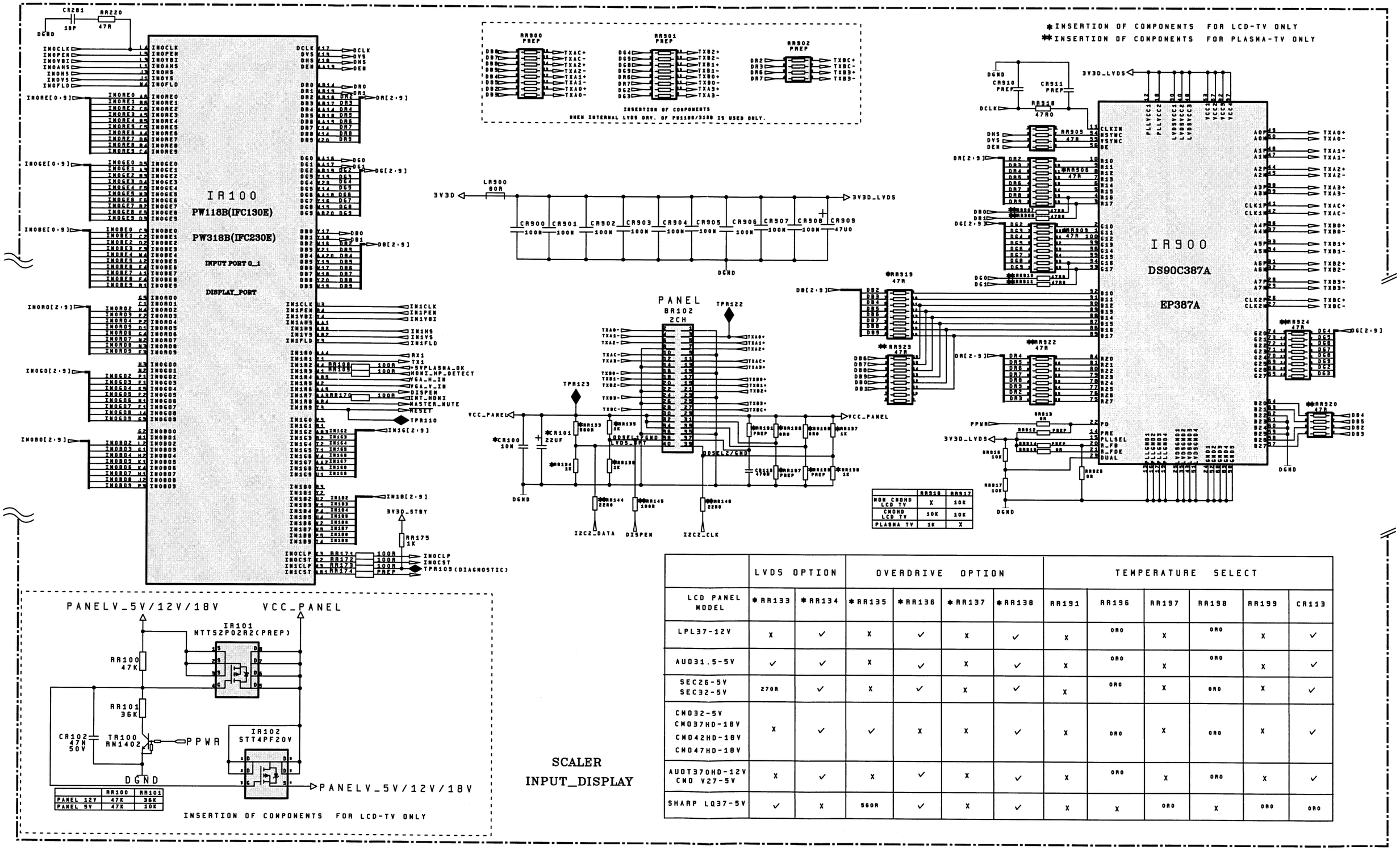

	RR100	RR101
PANEL 12V	47K	36K
PANEL 5V	47K	10K

	RR916	RR917
NON CHOND LCD TV	X	10K
CHOND LCD TV	10K	10K
PLASMA TV	1K	X

	LVDS OPTION		OVERDRIVE OPTION				TEMPERATURE SELECT					
LCD PANEL MODEL	*RR133	*RR134	*RR135	*RR136	*RR137	*RR138	RR191	RR196	RR197	RR198	RR199	CR113
LPL37-12V	X	✓	X	✓	X	✓	X	0R0	X	0R0	X	✓
AUO31.5-5V	✓	✓	X	✓	X	✓	X	0R0	X	0R0	X	✓
SEC26-5V SEC32-5V	270R	✓	X	✓	X	✓	X	0R0	X	0R0	X	✓
CMO32-5V CMO37HD-18V CMO42HD-18V CMO47HD-18V	X	✓	✓	X	X	✓	X	0R0	X	0R0	X	✓
AUOT370HD-12V CMO V27-5V	X	✓	X	✓	X	✓	X	0R0	X	0R0	X	✓
SHARP LQ37-5V	✓	X	560R	✓	X	✓	X	X	0R0	X	0R0	0R0

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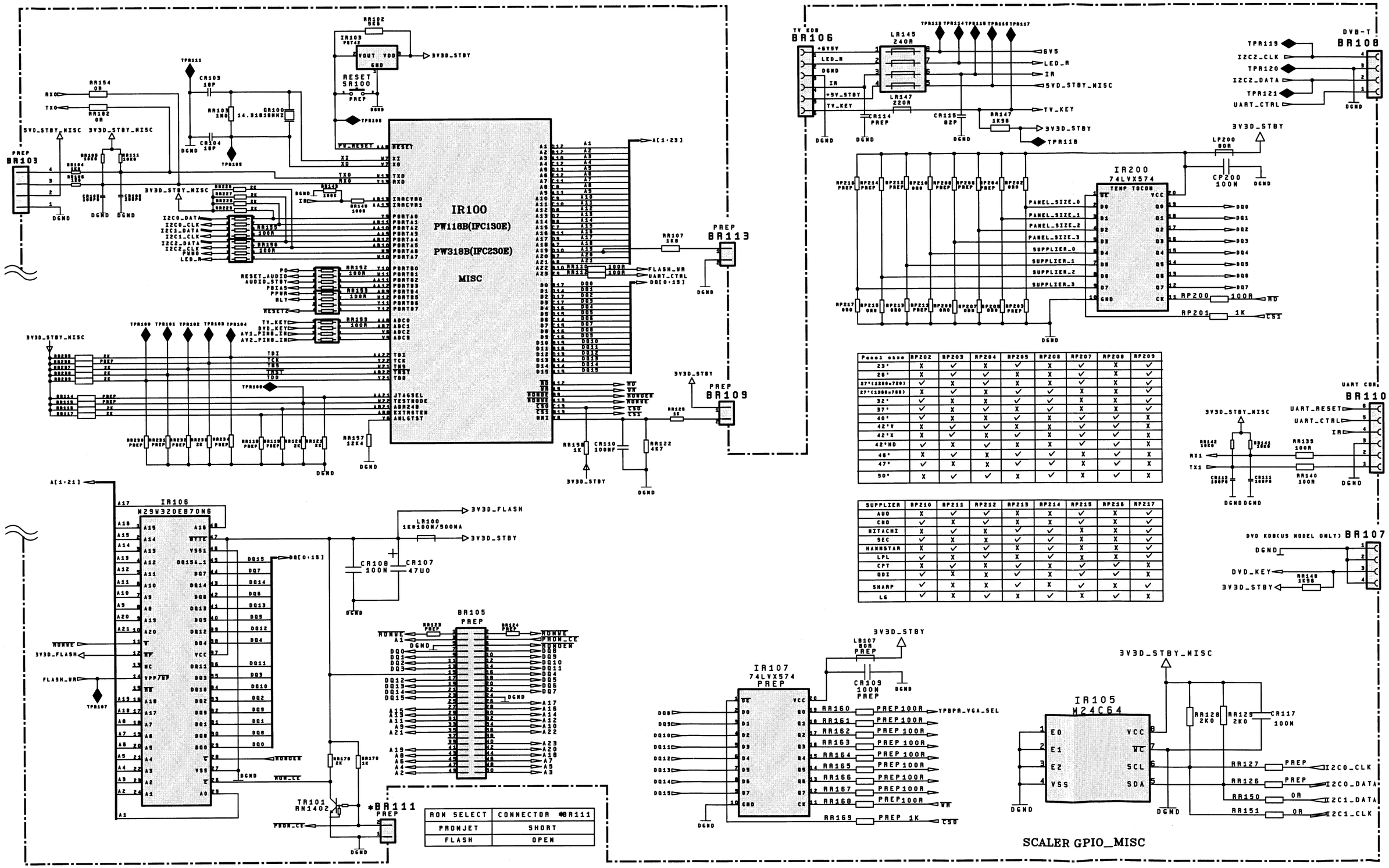

Panel size	RP202	RP203	RP204	RP205	RP206	RP207	RP208	RP209
23"	X	✓	X	✓	X	✓	X	✓
26"	X	✓	✓	X	X	✓	X	✓
27"(1280x720)	✓	X	✓	X	X	✓	X	✓
27"(1366x768)	X	✓	X	✓	✓	X	X	✓
32"	✓	X	X	✓	✓	X	X	✓
37"	✓	X	✓	X	✓	X	X	✓
40"	✓	X	X	✓	X	✓	✓	X
42"V	X	✓	✓	X	X	✓	✓	X
42"X	X	✓	X	✓	X	✓	✓	X
42"HD	✓	X	✓	X	X	✓	✓	X
46"	X	✓	X	✓	✓	X	✓	X
47"	✓	X	X	✓	✓	X	✓	X
50"	X	✓	✓	X	✓	X	✓	X

SUPPLIER	RP210	RP211	RP212	RP213	RP214	RP215	RP216	RP217
AUO	X	✓	✓	X	X	✓	X	✓
CMO	✓	X	✓	X	X	✓	X	✓
HITACHI	X	✓	X	✓	✓	X	X	✓
SEC	✓	X	X	✓	✓	X	X	✓
HANNSTAR	X	✓	✓	X	✓	X	X	✓
LPL	✓	X	✓	X	✓	X	X	✓
CPT	X	✓	X	✓	X	✓	✓	X
QDI	✓	X	X	✓	X	✓	✓	X
SHARP	✓	X	X	✓	X	✓	X	✓
LG	✓	X	✓	X	✓	X	✓	X

ROM SELECT	CONNECTOR *BR111
PRONJET	SHORT
FLASH	OPEN

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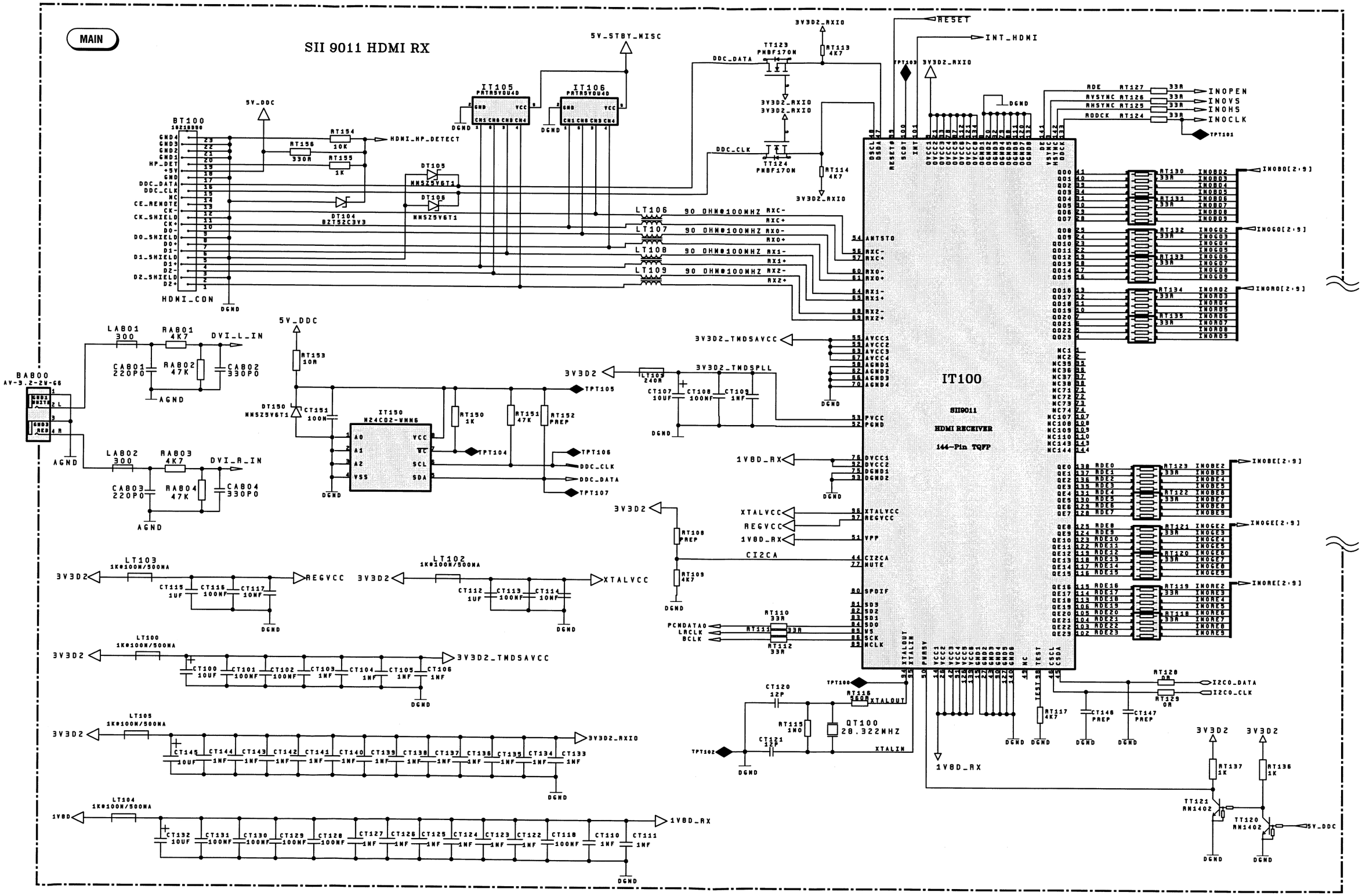

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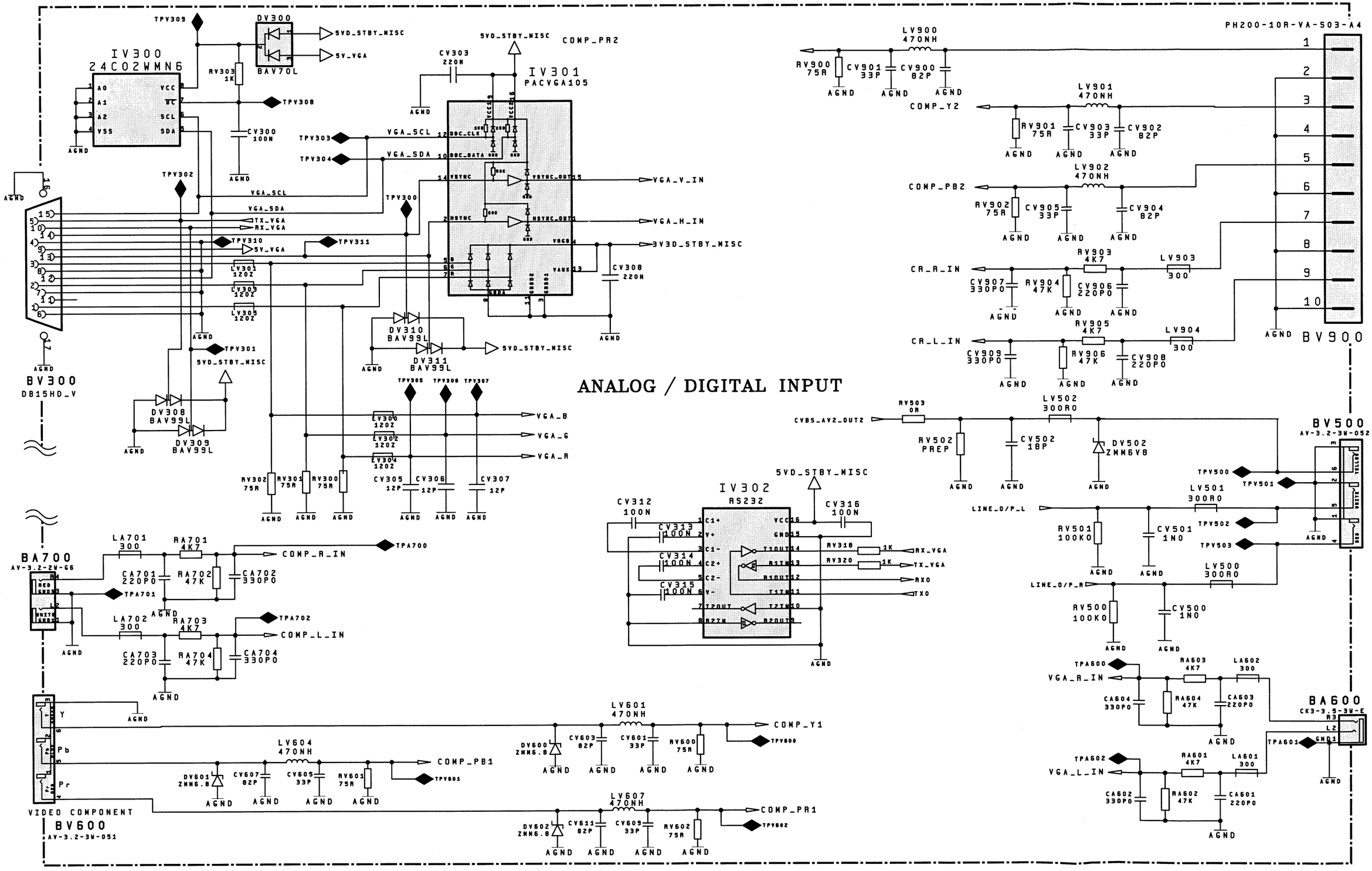

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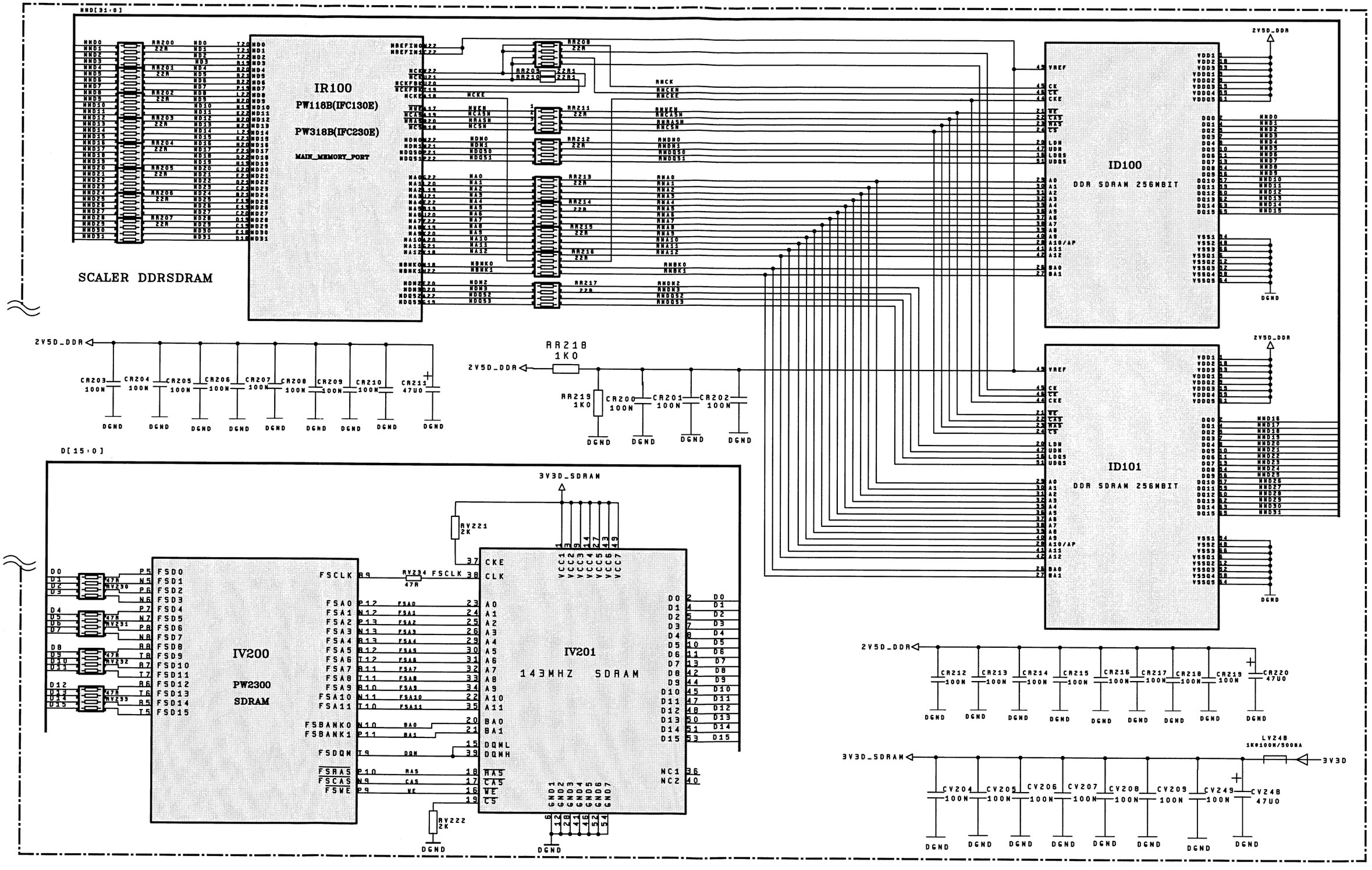

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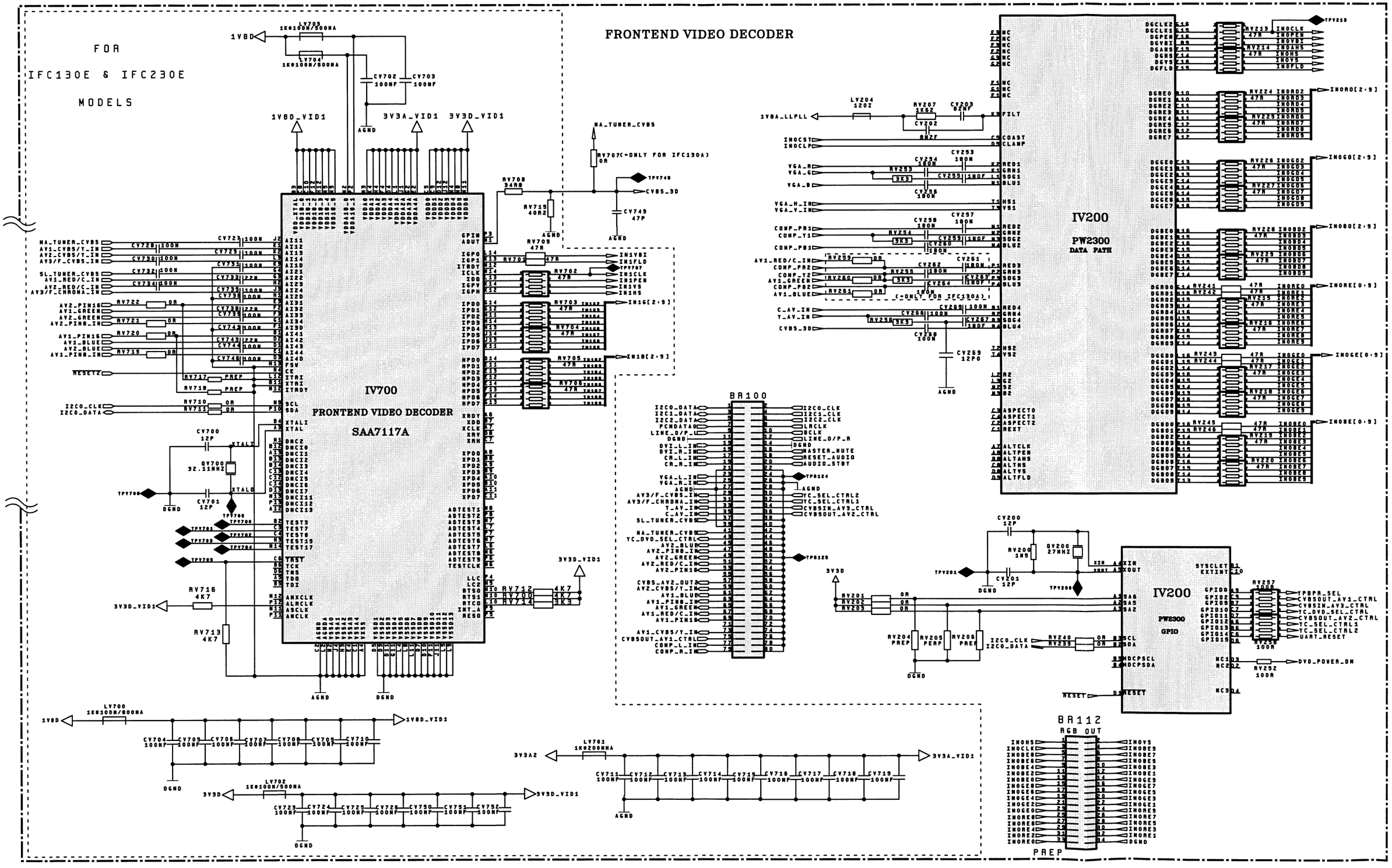

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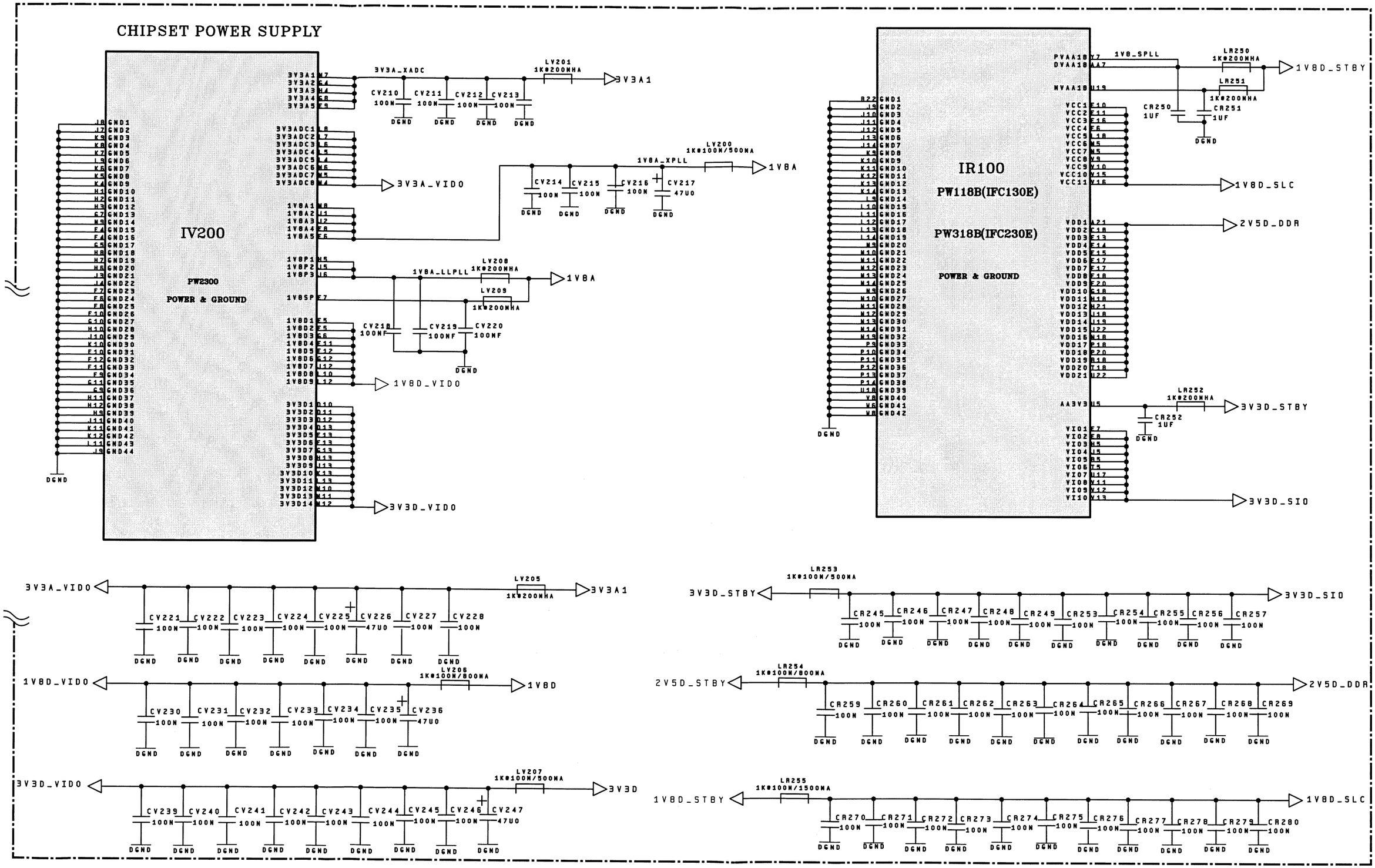

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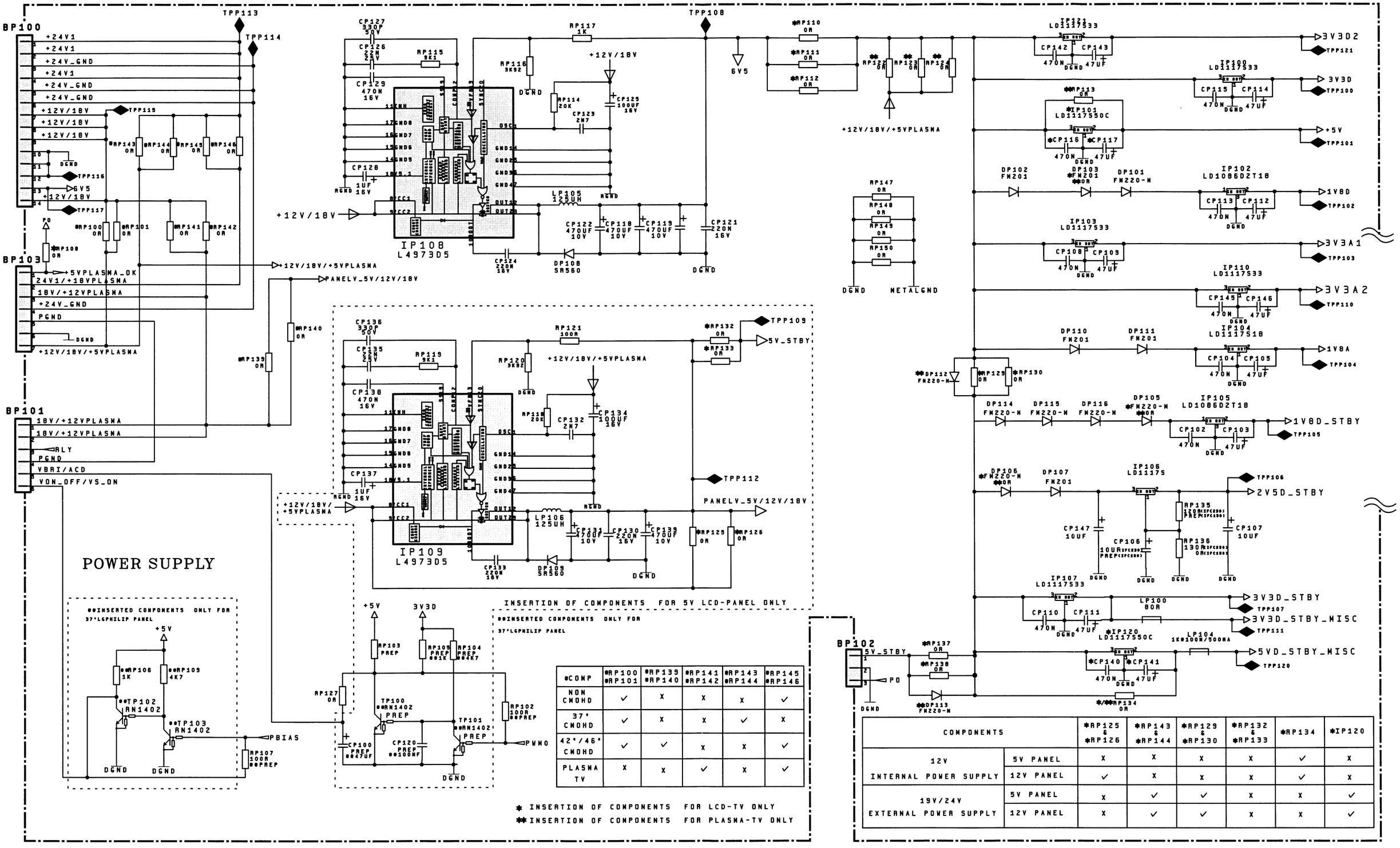

*COMP	*RP100 *RP101	*RP139 *RP140	*RP141 *RP142	*RP143 *RP144	*RP145 *RP146
NON CMOHD	✓	X	X	X	✓
37" CMOHD	✓	X	X	✓	X
42"/46" CMOHD	✓	✓	X	X	✓
PLASMA TV	X	X	✓	X	✓

COMPONENTS		*RP125 & *RP126	*RP143 & *RP144	*RP129 & *RP130	*RP132 & *RP133	*RP134	*IP120
12V INTERNAL POWER SUPPLY	5V PANEL	X	X	X	X	✓	X
	12V PANEL	✓	X	X	X	✓	X
19V/24V EXTERNAL POWER SUPPLY	5V PANEL	X	✓	✓	X	X	✓
	12V PANEL	X	✓	✓	X	X	✓

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